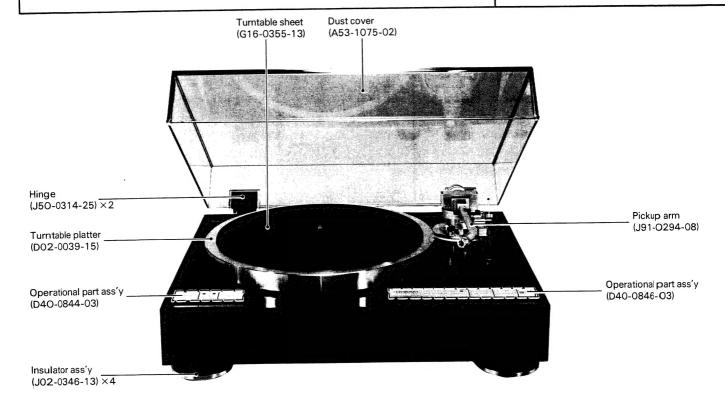
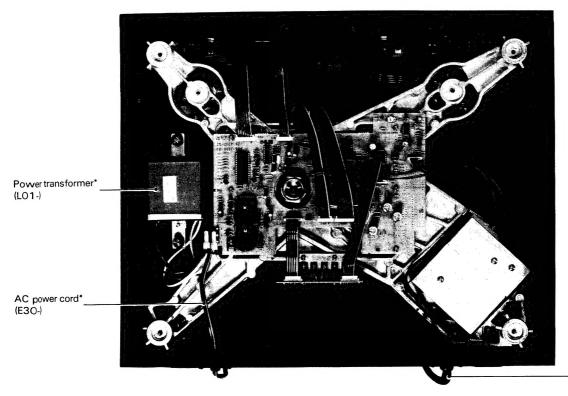
KD-7010 SERVICE MANUAL

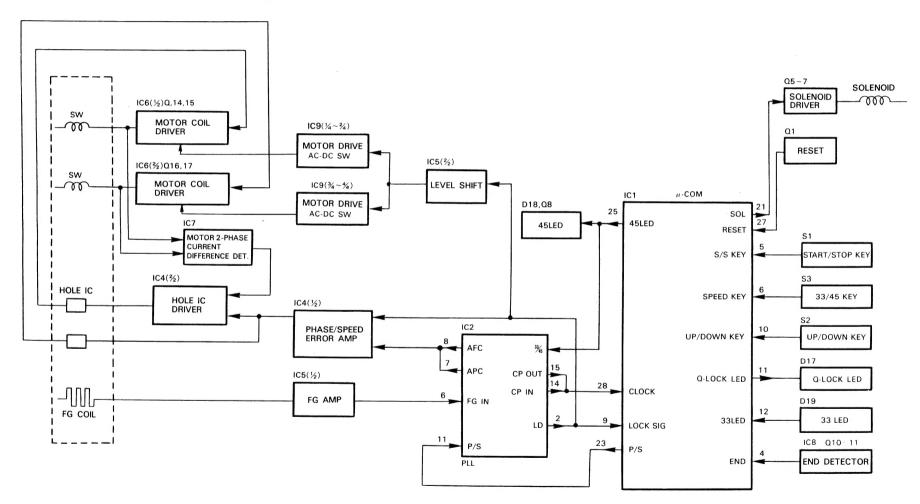
KENWOOD

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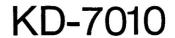




Audio cord (E30-Ø800-05)



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. Functions of Semiconductors

ELECTRIC UNIT (X25-2580-00)

Element	Function	Operation, Condition & Interchangeability
IC1	Microprocessor	Refer to the description of μPD7520.
IC2	PLL controller	For motor speed and phase control. Refer to the description of TC9142P.
IC3	Power ON/OFF	Each time Power SW S4 is pressed, the output from pin 2 switches between H and L, which controls Q5 to turn power ON and OFF.
IC4	Error amplifier, Hole IC driver	Drives the Hole ICs of the motor, based on the speed and phase error signals from IC2.
IC5	FG amplifier Level shifter	Amplifies the motor's FG output. Shifts the level of the IC2's Lock signal from $(0-8\ V)$ to $(+10-10\ V)$, and turns IC9 (analog SW) and Q9 ON and OFF.
IC6	Motor driver	Amplifies the motor's Hall IC output to drive the motor coil. Q14 to Q17 are output current boosters.
IC7	Difference detector for 2-phase motor coil current	Detects the difference values of the 2-phase current from the motor coil, and sends the signal to IC4 in order to eliminate the difference.
IC8	End detector	Amplifies the photo-reflector output, detects the tonearm position, differentiate the position detection output for convertion into speed, and compares it in order to detect the guide groove.
IC9	Analog SW, motor driver AC/DC coupling switch	The SW is OFF and the coupling is AC when the motor is quartz-locked, and the coupling is DC in other cases.
Q1	+8 V power supply	Increases the current of Zener diode D8.
Q2	Microprocessor reset	
Q3	Power ON/OFF	Q3 turns ON/OFF depending on the IC3's flip-flop output, controls the voltage at the base of Q1, and turns power ON and OFF.
Q4	IC3 reset	Detects the Zener current from Zener diode D9, and resets IC3. It is initialized so that the Power SW is OFF when the power cord is connected.
Q5	Q6 driver	Turned ON by microprocessor IC1 in solenoid drive operation (with microprocessor output "L").
Q6	Solenoid driver	ON when SOL is ON.
Ω7	Solenoid driver	Turns ON for approx. 8 seconds from the solenoid kick operation.
Q8	LED driver	When the speed is set for 45 rpm, Q8 turns ON by "H" output from the microprocessor.
Q9	IC7 output OFF switch	Inhibits the operation of the 2-phase current difference detector circuit while the motor is not quartz-locked.
Q10, 11	End detector	Controls the photo-reflector output used for end detection.
Q12, 13	±10 V power supply	Increases the current of Zener diodes D6 and D7.
Q14~17	Motor driver	Drives the motor coil for IC6 output current boost.

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2. Two-phase current difference detector circuit

The wow & flutter of a two-phase motor deteriorates when there is a difference between the current values of the two phases, $\phi 1$ and $\phi 2$. With the KP-990, this difference is eliminated by using a circuit which detects the difference between the two phase currents and adjusts the drive current of the Hole ICs.

the currents of the two Hole values are equal.

When the motor is not qual is fixed at about 0 V, and this specific process of the two Hole values are equal.

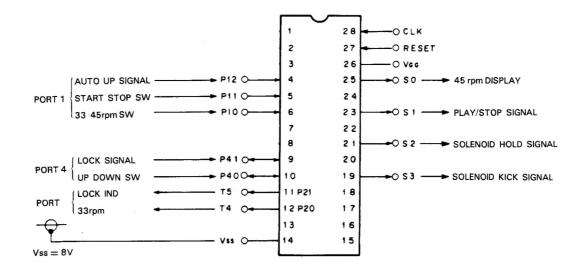
When the motor is not qual is fixed at about 0 V, and this specific process of the two Hole values are equal.

When the motor is not qual is fixed at about 0 V, and this specific process of the two Hole values are equal.

To Hole element driver circuit specific process of the two Hole values are equal.

To Hole element driver circuit specific process of the two Hole values are equal.

3. Microprocessor Operation Description



The positive side of $\phi 1$ and negative side of $\phi 2$ are input to the integrator, and the difference between $\phi 1$ and $\phi 2$ is output from it. (The difference between the ① and ② portions in the diagram on the left)

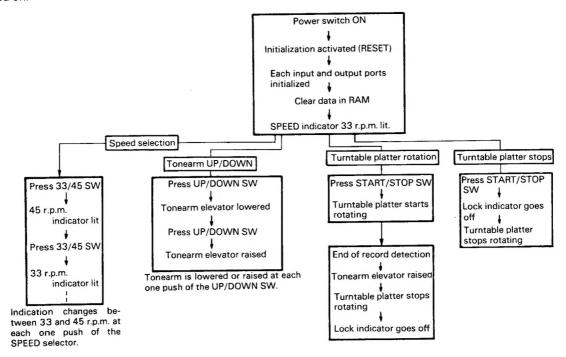
Then, the ripple incorporated in the output is eliminated by the low-pass filter, and its output is recognized as the difference between the two phase currents.

The Hole element drive circuit uses this signal to control the currents of the two Hole ICs so that $\phi 1$ and $\phi 2$ current values are equal.

When the motor is not quartz-locked, Q9 is ON, the output is fixed at about 0 V, and this circuit does not operate.

ullet Operation specifications of μ PD7520

The following diagram shows the operations of each section which occur at each operating point after power has been turned on.



Condition of each μ PD7520C-028 ports

- (1) Initialization (Power ON)
- (2) Speed selection (33/45 rpm)
- (3) Turntable platter starts rotating (START)
- (4) Tonearm auto up
- (5) Turntable platter stops rotating (STOP)

The above mentioned (1) \sim (5) are placed in the order of the functions described in " μ PD7520C-028 Function description". The conditions shown in the table below are also in that order so that functions can be confirmed while checking the IC's ports.

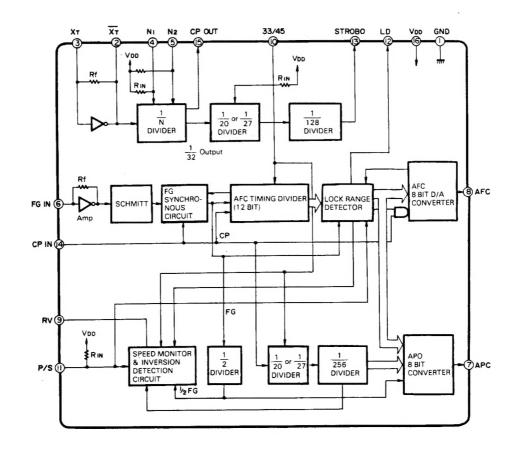
			INPUT	PORT				0	UTPUT	PORT		
PORT NO.	P10	P11	P 12	P13	P40	P41	T 4	T 5	S 0	S1	S 2	S 3
PIN NO.	6	5	4	3	10	9	12	11	25	23	21	19
PORT NAME	33/45	START STOP	AUTO UP	Not	UP DOWN	LOCK	33 rpm	LOCK	45 rpm	START STOP	UP DOW N	Kick
	SW	SW	Signal	used	SW	Signal	LED	LED	LED	Signal	Signa l	Signal
(1) Power ON RESET						1						
33/45 SW ON (45)						:						<u> </u>
(2) 33/45 SW ON (33)				 				1		!		l
(3) START/STOP SW ON	<u> </u>			! !			1	1 1				
Auto up signal IN						:		l I		1		
(4) START/STOP SW ON] :		-		!		! !				
(5) START/STOP SW ON						1 1 1	1					

KD-7010

4. Quartz PLL Motor Controller (C2-MOS LSI)

TC9142P is a motor controller for quartz lock type direct drive turntable motors. This IC employs 8-bit D/A converter for rotational speed control and phase control instead of the conventional capacitor type sampling hold circuit. This method will reduce the numbers of components and also gets free from adjustments.

• BLOCK DIAGRAM



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• Functions of terminals

CODE	NAME	FUNCTION DESCRIPTION	REMARKS
1 GND	Ground	Ground terminal for IC	
2 XT, 3 XT	X'tal connection	Connect a crystal between these two pins.	Built-in feed back resistor
4 N1 5 N2	Reference divid- ing factor sw.	Dividing factor of 4,32 or 128 can be selected for reference crystal frequency by these ports.	Built-in pull-up resisrtor
6 FG-IN	FG pulse input	Pulses generated as motor rotates is input to this port for rotatioal speed detection.	
7 APC	APC output	Automatic phase controller output. (8-bit D/A converter output)	Built-in amp
8 AFC	AFC output	F-V converter output for rotational speed control. (8-bit D/A converter output)	
9 RV	Inversion signal output	Inversion signal output for turntable motor.	
10 33/45	Speed selector	Rotational speed selector port. (L: 33 1/3 r.p.m.) (H or NC: 45 r.p.m.)	Built-in pull-up resister
11 P/S	PLAY/STOP input	Input port to select PLAY or STOP state of the turntable motor.	Built-in pull-up resistor
12 LD	Lock detection output	Outputs "H" when the rotational speed is in the lock range, otherwise "L".	
13 STROBO	STROBO output	Reference frequency output for stroboscope with the duty ratio of 1/8.	
14 CP-IN	CP-IN input	This port is normally connected oscillator input to this port will fine speed adjustment.	
15 CP-OUT	CP-OUT output	Divided frequency output of crystal oscillator for reference, normally connected to CP-IN.	
16 VDD	VDD	Feed power supply voltage of 5-9.5V.	

ADJUSTMENT/REGLAGES/ABGLEICH

ADJUSTMENT

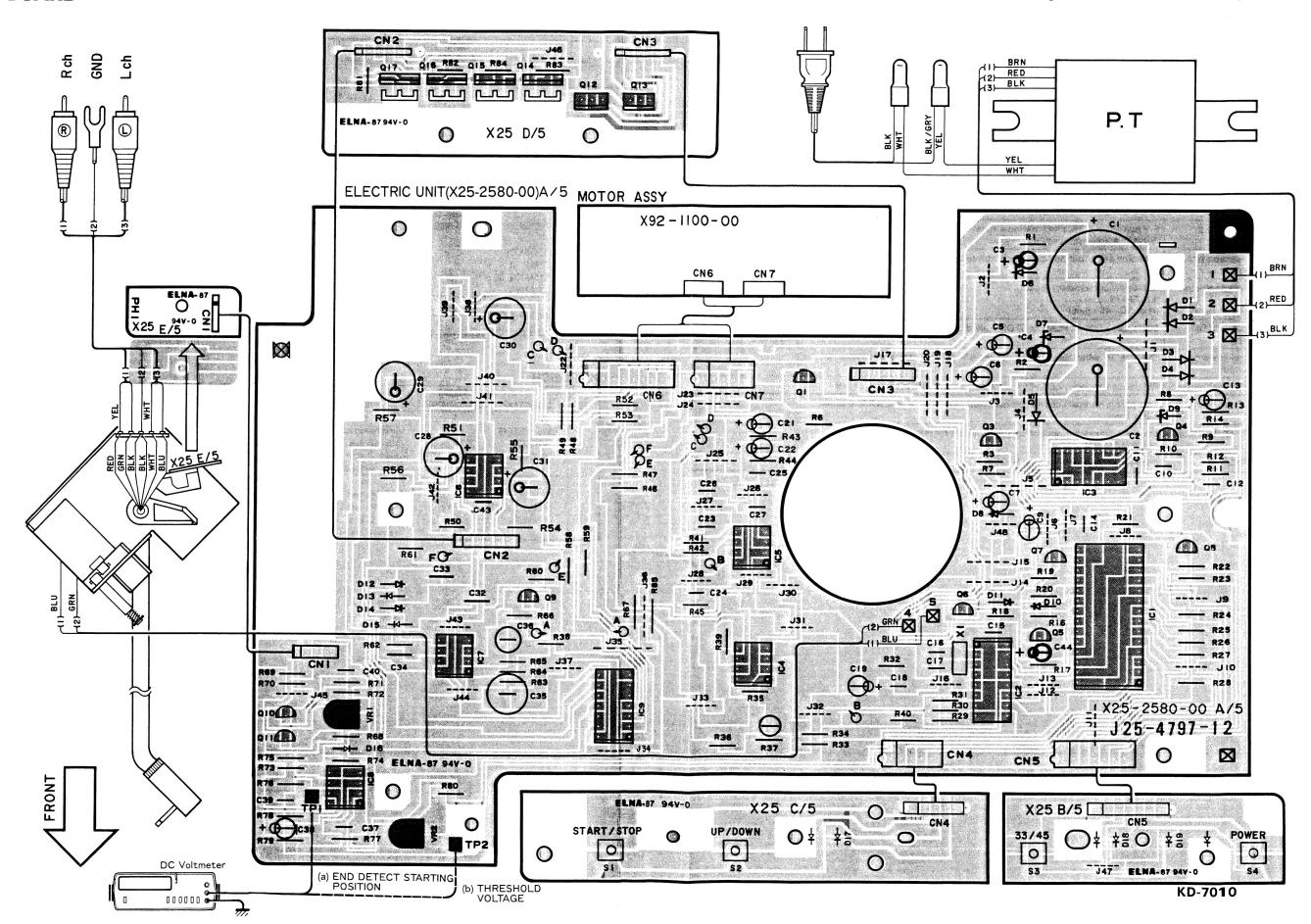
		INPUT	OUTPUT	TURNTABLE SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
No.	ITEM	SETTINGS	SETTINGS		CINIO	MD10H 10H	1
				Set the stylus tip so that			
	END DETECT		Connect a DC	57.5mm is obtained from		0.04	(-)
1	STARTING	-	voltmeter to TP1	the center of the	VR1	0.9V	(a)
	POSITION		(Pin 7 of IC8)	turntable spindle.			
			Connect a DC				
2	THRESHOLD	-	voltmeter to TP2	_	VR2	2 2 0 m V	(b)
	VOLTAGE		(Pin 2 of IC8)				

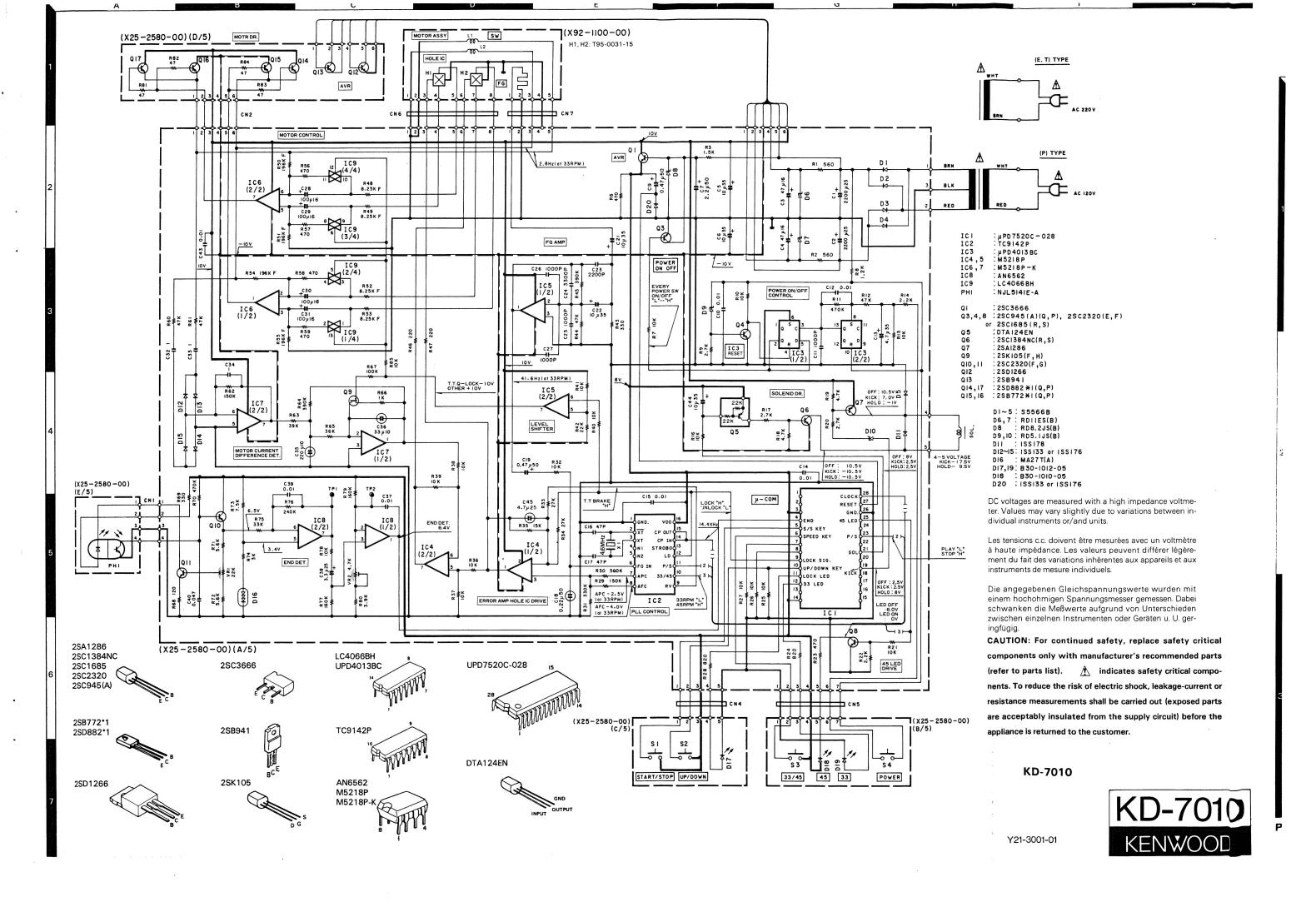
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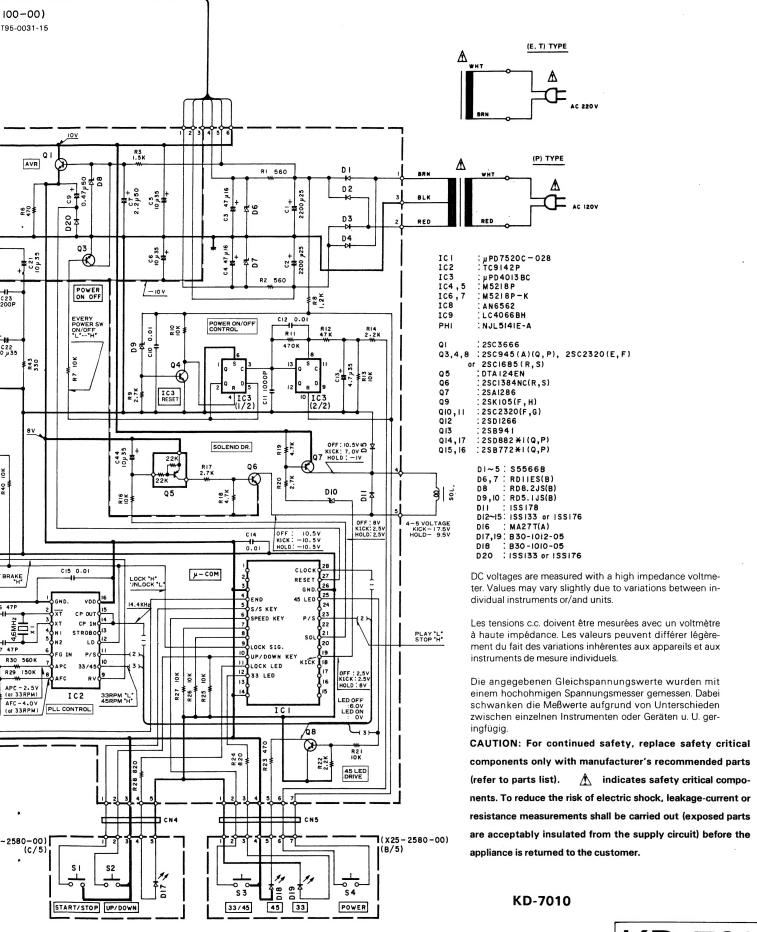
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE TOURNE-DISQUE	POINTS L'ALIGNMENT	ALIGNER POUR	FIG.
1	POSITION DE DEPART LA TERMINASION DE DETECTEUR	-	Connecteur un voltmetre CC a TP1 (Fiche 7 de IC8)	Régler la crête de aiguille de facon de 57,5mm soit obtener de centre de plateau à disques.	VR1	0.9V	(a)
2	TENTION DE SEUIL		Connecteur un voltmètre CC à TP2 (Fiche 2 de IC8)	-	VR2	220mV	(b)

ABGLEICH

ADGI	EICH .						
		EINGANGS-	AUSGANGS-	PLATTEN SPIELER-	ABGLEICH		
NR.	GEGENSTAND	EINSTELLUNG	EINSTELLUNG	EINSTELLUNG	PUNKTE	ABGLEICHEN FüR	ABB.
			Einen	Der spitze von Tonabnehmer			
	ENDE DETEKTS		Gleichspannungs	so einstellen, daß ein			
1	ANFANGS-	-	messer zum TP1	57,5mm aus der mitte des	VR1	0,97	(a)
	STELLUNG		(Stift 7 von IC8)	Plattentellers erhält			
			anschließen.	wird.			
			Einen				
			Gleichspannungs				1
2	SCHWELLEN-	-	messer zum TP2	_	VR2	2 2 0 m V	(p)
	SPANNUNG		(Stift 2 von IC8)				
			anschließen.				





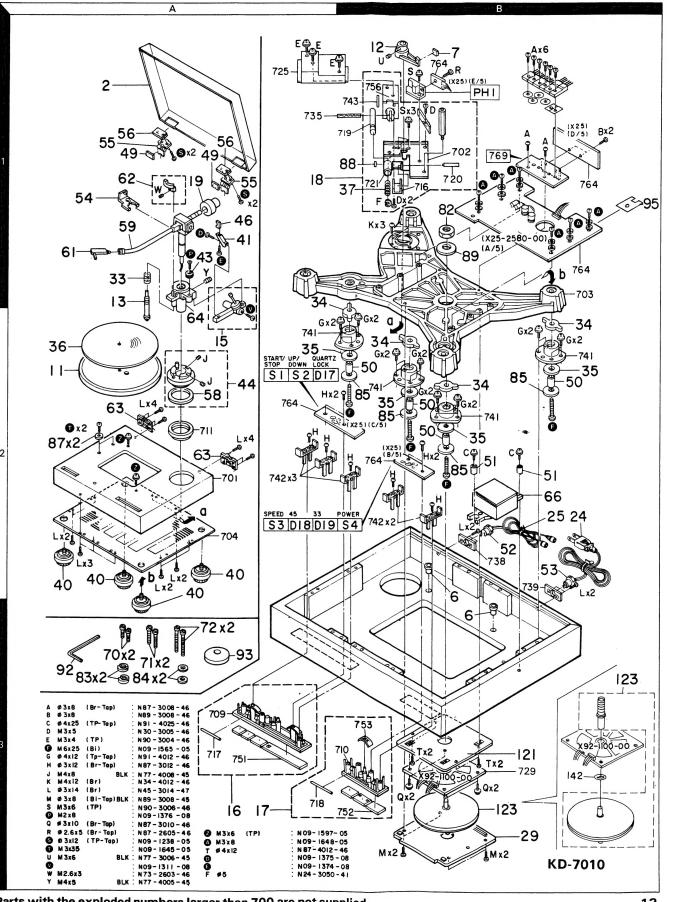


Y21-3001-01



KD-7010

EXPLODED VIEW (MAIN UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

13

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Ref. No.	Address			Description	Desti- Re
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6 7 -	2B,3B 1B		B09-0051-04 B19-0510-14 B46-0121-03 B46-0122-13 B46-0143-03	CAP MIRROR WARRANTY CARD WARRANTY CARD WARRANTY CARD	P E T
 		* *	B50-9351-00 B50-9352-00 B50-9353-00 B58-0290-04 B58-0386-04	INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL CAUTION CARD CAUTION CARD	PE E
			B58051804 B58051904	CAUTION CARD CAUTION CARD	ET P
11 12 13 15 16	2A 1B 1A 2A 3A	*	D02-0039-15 D10-0944-24 D21-1007-08 D39-0169-08 D40-0846-03	TURNTABLE PLATTER ARM SHAFT ASSY ANTI-SKATING DEVICE ASSY ØPERATIØNAL PART ASSY	
17 18 19	3A 1A 1A	*:	D40-0844-03 D40-0511-23 D91-0069-08	OPERATIONAL PART ASSY AUTO-UP MECHANISM ASSY MAIN WEIGHT	
24 24 24 25	2B 2B 2B 2B 2B		E29-0309-05 E30-0459-05 E30-0780-05 E30-1416-05 E30-0800-05	WIRE CØNNECTIØN CAP AC PØWER CØRD AC PØWER CØRD AC PØWER CØRD AUDIØ CØRD	E P T
29	3B		F07048303	COVER	
33 34 35 36 37	1A 1A,2B 2A,2B 2A 1B		G01-1057-08 G11-1127-04 G11-1128-04 G16-0355-13 G01-1078-04	TORSION COIL SPRING CUSHION CUSHION TURNTABLE SHEET COMPRESSION SPRING	
-		*	H01-8395-04 H10-1864-02 H10-1865-02 H10-1866-02 H12-0393-02	ITEM CARTON CASE POLYSTYRENE FOAMED FIXTURE(T.T POLYSTYRENE FOAMED FIXTURE(L) POLYSTYRENE FOAMED FIXTURE(R) CARTON BOARD	
			H200469-04 H25002904 H25023204	PRØTECTIØN CØVER PRØTECTIØN BAG (60X110) PRØTECTIØN BAG (235X350X0.03)	
40 41 43 44 46	2A 1A 1A 2A 1A		J02-0346-13 J19-0812-08 J19-0814-08 J19-2580-08 J19-2614-08	INSULATOR ASSY HOLDER HOLDER TONEARM BASE ASSY TONEARM REST	
49 50 51 52 53	1A 2B 2B 2B 2B 2B		J30-0183-05 J31-0263-05 J31-0273-05 J41-0033-05 J42-0078-05	SPACER (38X15X1.6) COLLAR COLLAR POWER CORD BUSHING POWER CORD BUSHING	
	参照番号 2 6 7	クロ	# 十	##	************************************

E: Scandinavia & Europe K: USA

P: Canada

U: PX(Far East, Hawaii) T: England UE: AAFES(Europe) X: Australia

M: Other Areas

⚠ indicates safety critical components.

KD-7010 KD-

× New Parts

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61 62 63 64	1A 1A 2A 2A		J92-0053-15 J99-0020-08 J21-2302-05 J19-2656-08 J61-0054-05	SHELL TONEARM LIFTER HOLDER LIFTER BASE WIRE BAND		
			J61-0307-05	WIRE BAND		
66 66 66	2B 2B 2B	*	L01-7121-05 L01-7122-05 L01-7127-05	PØWER TRANSFØRMER PØWER TRANSFØRMER PØWER TRANSFØRMER	P E T	
70 71 72 82 83	3A 3A 3A 1B 3A		N09-0850-04 N09-085104 N09-0852-04 N14-016405 N14-041204	CARTRIDGE MOUNTING SCREW(M2.6X CARTRIDGE MOUNTING SCREW(M2.6X CARTRIDGE MOUNTING SCREW(M2.6X HEXAGON NUT CIRCULAR NUT		
84 85 87 88 89	3A 2B 2A 1B 1B		N19017509 N19096505 N19098505 N29021905 N19096605	FLAT WASHER FLAT WASHER FLAT WASHER RETAINING RING M TYPE WASHER		
A D E F F	1B 1A 1A 2B 1B		N09-1648-05 N09-1375-08 N09-1374-08 N09-1565-05 N24-3050-41	MACHINE SCREW (M3X8) SET SCREW SET SCREW MACHINE SCREW (M6X25) E TYPE RETAINING RING		
P S T V Z	1A 1A 2A 1A,1B 2A		N09-137608 N09-123805 N09-164505 N09-131108 N09-159705	SET SCREW TAPTITE SCREW (3X12) MACHINE SCREW (M3X35) STEPPED SCREW MACHINE SCREW (M6X22,2)		
92 93	3A 3A			HEXAGON WRENCH KEY EP ADAPTER		
	ELECT	TRIC	C UNIT (X25-2580	0-00: P, X25-2582-71: E, T)		
D17 D18 D19	2A 2A 2A		B30-1010-05	LED (QUARTZ L®CK) LED (45) LED (33)		
C1 ,2 C3 ,4 C5 ,6 C7 C9			C90-1358-05 CEO4KW1C470M CEO4KW1V100M CEO4KW1H2R2M CEO4KW1HR47M	ELECTR® 2200UF 25WV ELECTR® 47UF 16WV ELECTR® 10UF 35WV ELECTR® 2.2UF 50WV ELECTR® 0.47UF 50WV		
C10 C11 C12 C13 C14 ,15			CK45FF1H103Z CK45FB1H102K CK45FF1H103Z CE04KW1V4R7M CK45FF1H103Z	CERAMIC 0.010UF Z CERAMIC 1000PF K. CERAMIC 0.010UF Z ELECTRØ 4.7UF 35WV CERAMIC 0.010UF Z		
C16 -17 C18 C19			CC45FSL1H470J C90-1456-05 CE04KW1HR47M	CERAMIC 47PF J NP-ELEC 0.22UF 50WV ELECTRØ 0.47UF 50WV		

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→ New Parts

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	61 62 63 64	1A 1A 2A 2A		J92-0053-15 J99-0020-08 J21-2302-05 J19-2656-08 J61-0054-05	SHELL TØNEARM LIFTER HØLDER LIFTER BASE WIRE BAND		
				J61-0307-05	WIRE BAND		
A	66 66 66	2B 2B 2B	*	L01-7121-05 L01-7122-05 L01-7127-05	PØWER TRANSFØRMER PØWER TRANSFØRMER PØWER TRANSFØRMER	P E T	
	70 71 72 82 83	3A 3A 3A 1B 3A		N09-0850-04 N09-0851-04 N09-0852-04 N14-0164-05 N14-0412-04	CARTRIDGE MOUNTING SCREW(M2.6X CARTRIDGE MOUNTING SCREW(M2.6X CARTRIDGE MOUNTING SCREW(M2.6X HEXAGON NUT CIRCULAR NUT		
	84 85 87 88 89	3A 2B 2A 1B 1B		N19-0175-09 N19-0965-05 N19-0985-05 N29-0219-05 N19-0966-05	FLAT WASHER FLAT WASHER FLAT WASHER RETAINING RING M TYPE WASHER		
	A D E F F	1B 1A 1A 2B 1B		N09-1648-05 N09-1375-08 N09-1374-08 N09-1565-05 N24-3050-41	MACHINE SCREW (M3XB) SET SCREW SET SCREW MACHINE SCREW (M6X25) E TYPE RETAINING RING		
	P S T V Z	1A 1A 2A 1A,1B 2A		N09-1376-08 N09-1238-05 N09-1645-05 N09-1311-08 N09-1597-05	SET SCREW TAPTITE SCREW (3X12) MACHINE SCREW (M3X35) STEPPED SCREW MACHINE SCREW (M6X22.2)		
	92 93	3A 3A			HEXAG®N WRENCH KEY EP ADAPTER		
					0-00: P, X25-2582-71: E, T)		
	D17 D18 D19	2A 2A 2A		B30-1010-05	LED (QUARTZ L®CK) LED (45) LED (33)		
	C1 ,2 C3 ,4 C5 ,6 C7 C9			CEO4KW1V100M CEO4KW1H2R2M	ELECTRØ 2200UF 25WV ELECTRØ 47UF 16WV ELECTRØ 10UF 35WV ELECTRØ 2.2UF 50WV ELECTRØ 0.47UF 50WV		
	C10 C11 C12 C13 C14 ,15			CK45FF1H103Z	CERAMIC 0.010UF Z CERAMIC 1000PF K CERAMIC 0.010UF Z ELECTRO 4.7UF 35WV CERAMIC 0.010UF Z		
	C16 ,17 C18 C19			CC45FSL1H470J C90-1456-05 CE04KW1HR47M	CERAMIC 47PF J NP-ELEC O.22UF 50WV ELECTRØ O.47UF 50WV		

E: Scandinavia & Europe K: USA

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UE : AAFES(Europe) X: Australia

ndicates safety critical components.

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Ref. No.	Address	Parts	Parts No			Description		Desti- nation	
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C21 ,22 C23 C24 C25 -27 C28 -31		0 0	CE04KW1V100 CF92FV1H222 CF92FV1H332 CK45FB1H102 CE04GW1C101	2J 2J 2K	ELECTR® MF MF CERAMIC LL-ELEC	10UF 2200PF 3300PF 1000PF 100UF	35WV J J K 16WV		
C32 -34 C35 C36 C37 C38			CF92V1H105J C90-1395-05 C90-1396-05 CK45FF1H103 C90-1285-05	Z	MF NP-ELEC NP-ELEC CERAMIC ELECTRO	1. OUF 220UF 33UF 0. 010UF 3. 3UF	J 10WV 10WV Z 25WV		
C39 C40 C43 C44 C45			CK45FF1H103 CK45FF1H473 CK45FF1H103 CE04KW1V100 C90-1352-05	Z Z M	CERAMIC CERAMIC CERAMIC ELECTRO NP-ELEC	0. 010UF 0. 047UF 0. 010UF 10UF 4. 7UF	Z		
95	1B	E	23-0125-05		TERMINAL				
X1		L	.77-0580-05		CRYSTAL RES	50NAT0R(4.	6MHZ)		
R48 ,49 R50 ,51 R52 ,53 R54 ,55 VR1		7 7 8	RN14BK2C825 RN14BK2C196 RN14BK2C825 RN14BK2C196 R12-3097-05	3F 1F 3F	RN RN RN RN TRIMMING PI	8, 25K 196K 8, 25K 196K ST. (22K)	F 1/6W F 1/6W F 1/6W F 1/6W		
VR2		R	R12-106 9-0 5		TRIMMING PO	9T. (4.7K)			
S1 -4	2A,2B	9	640-106405		PUSH SWITCH	4			
D1 -5 D6 ,7 D8 D9 ,10 D11		R	S566B RD11ES(B) RD8.2JS(B) RD5.1JS(B) SS178		DIØDE ZENER DIØDE ZENER DIØDE ZENER DIØDE DIØDE	-			
D12 -15 D12 -15 D16 D20 D20	,	1 M 1	.SS133 SS176 1A27T(A) SS133 .SS176		DIØDE DIØDE VARISTØR DIØDE DIØDE				
IC1 IC2 IC3 IC4 ,5 IC6 ,7		T U M	JPD7520C-020 TC9142P JPD4013BC J5218P J5218P-K		IC(MICR®PR® IC(QUARTZ F IC(D FLIP-F IC(®P AMP) IC(®P AMP)	PLL MOTOR (FLOP X2) K2)	CØNTRØL)		
IC8 IC9 PH1 Q1 Q3 ,4	18	L N 2	N6562 .C4066BH IJL5141E-A .SC3666 .SC1685(R,S)	IC(0F AMP) IC(BILATERA PH0T0 TRANS TRANSISTOR TRANSISTOR	AL SWITCH :	×4)		
Q3 ,4 Q3 ,4 Q5 Q6 Q7		2 D 2	SC2320(E,F SC945(A)(Q TA124EN SC1384NC(R SA1286	,P)	TRANSISTÖR TRANSISTÖR DIGITAL TRA TRANSISTÖR TRANSISTÖR	ANSISTØR			
Q8 Q8 Q8		2	SC1685(R,S SC2320(E,F SC945(A)(Q)	TRANSISTØR TRANSISTØR TRANSISTØR		·	٠	

E: Scandinavia & Europe K: USA

 $\textbf{U:} \ \mathsf{PX}(\mathsf{Far} \ \mathsf{East}, \ \mathsf{Hawaii}) \qquad \mathsf{T:} \ \mathsf{England} \qquad \ \textbf{M:} \ \mathsf{Other} \ \mathsf{Areas}$

P: Canada

UE : AAFES(Europe) X: Australia

indicates safety critical components.

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× New Parts

PARTS LIST

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

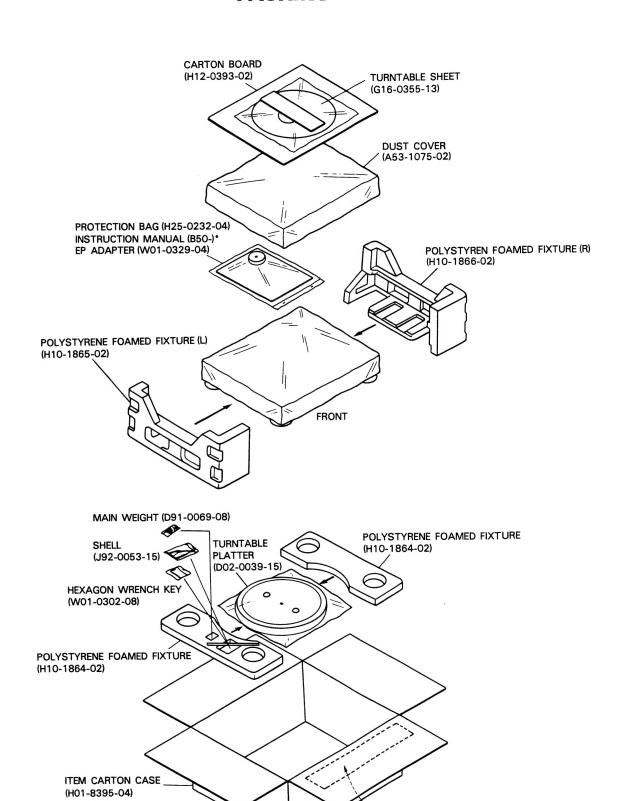
Ref.	No.	Addre		New Parts	Parts No.	Description	nation	Re-
参照者	番号	位	征	新	部品番号	部品名/規格	仕 向	備考
09 010 • 012 013 014	11				2SK105(F,H) 2SC2320(F,G) 2SD1266 2SB941 2SD882*1(Q,P)	FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
015 , 017	16				2SB772*1(Q,P) 2SD8B2*1(Q,P)	TRANSIST®R TRANSIST®R		
						(X92-1100-00)	Т	
					H25-0232-04	PRØTECTIØN BAG (235X350X0.03)		
142		3B			N29-0085-05	RETAINING RING		
121 123		3B 3B			T50-1011-03 T50-1031-04	Y®KE R®T®R ASSY		
				EL	ECTRIC CIRCUIT	MODULE (W02-0660-03)		
L.1 ,	2				L39-0127-05	DRIVE COIL		
Н1 ,	.2				T95-0031-15	HALL ELEMENT		
				1				

E: Scandinavia & Europe K: USA P: Canada U: PX(Far East, Hawaii) T: England M: Other Areas UE : AAFES(Europe) X: Australia

⚠ indicates safety critical components.

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PACKING



KENWOOD

KD-7010 KD-7010

SPECIFICATIONS

Motor and turntable		Tonearm				
Drive System	Direct-drive system	Type	Static-balance type, J-shape			
	Quartz PLL coreless & slotless		tonearm			
	DC servo motor	Effective Tonearm Length	. 245 mm (9-5/8 ")			
Turntable Platter	33 cm (13") diameter	Overhang	15 mm (9/16")			
	Aluminum alloy, Die-cast	Tracking Error + 1.8° to −1.0°				
Speeds	2 speeds, 33-1/3 and 45 rpm	Tracking Force Range				
-	Less than 0.02% (WRMS)	Usable Cartridge Weight	2.0 to 12 grams (with supplied			
	Less than 0.03% (DIN)		head-shell)			
Rumble	DIN weighted better than					
	-80 dB	Miscellaneous				
	DIN unweighted better than	Power Consumption	25 watts			
	– 55 dB	Dimensions	W: 490 mm (19-5/16")			
			H: 182 mm (7-3/16")			
			D: 410 mm (16-5/32")			
		Weight (Net)	13.7 kg (30.14 lb)			
			, very sign to a series of			
Note:						
We follow a policy of continuo	ous advancements in development. For the	his reason specifications may be cha	anged without notice.			

Note

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the CANADA (P) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

hionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION
2201 East Dominguez Street, Long Beach, CA 90810;
550 Clark Drive, Mount Olive, NJ 07828, U.S.A.
KENWOOD ELECTRONICS CANADA INC.
P.O. Box 1075 959 Gana Court, Mississauga, Ontario, Canada L4T 4C2
KENWOOD ELECTRONICS BENELUX N.V.
Mechelsesteenweg 418 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH Rembrücker-Str. 15, 6056 Heusenstamm, West Germany

TRIO-KENWOOD FRANCE S.A. Hi-Fi · VIDEO · CAR Hi-Fi 13, Boulevard Ney, 75018 Paris, France

TRIO-KENWOOD U.K. LTD.

17 Bristol Road, The Metropolitan Centre, Greenford, Middx. UB6 8UP England KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.

4E Woodcock Place, Lane Cove, N.S.W. 2066, Australia KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 4th Floor, 34-37, Connaught Road, Central, Hong Kong